

# DR GOPI BATTINENI



Dedicated and versatile researcher and software developer with a strong foundation in machine learning, healthcare informatics, and software development. Proven expertise in clinical research, real-time ML applications, IT infrastructure management, and telemedicine support. Seeking to leverage my experience in data-driven innovation, technical problem-solving, and academic instruction to contribute to impactful projects in health informatics, software engineering, or interdisciplinary research roles. Skilled in developing ML models, handling complex data, and building scalable applications across diverse environments.

## WORK EXPERIENCE

Period (worktype)  
Name of employer  
Type of business or sector  
Occupation or position held  
Role and responsibilities

Jan 2022 – Ongoing (Full Time)

University of Camerino, Italy.

Clinical research Centre

Postdoctoral Research Fellow (Assegno di Ricerca SSD BIO/16)

- Collaborating with healthcare providers, research institutions, pharmaceutical companies, and regulatory bodies
- Providing access to well-characterized, diverse samples and associated data supports the development of new drugs, diagnostic tools, and therapeutic approaches.
- The development of ML models that can predict how patients might respond to specific treatments based on their genetic makeup, medical history, and other factors. This aids in personalized treatment plans, allowing healthcare providers to tailor therapies for individual patients.
- Giving support in selecting relevant features from complex datasets, and determining which factors are most crucial in predicting disease risks or treatment outcomes.

Period (worktype)  
Name of employer  
Type of business or sector  
Occupation or position held  
Role and responsibilities

Jun – Sep (2023 & 24), Seasonal

VR Siddarth Engineering College, India.

Realtime applications of ML modeling

Adjunct Professor

- Develop the course syllabus, outline, and lesson plans to cover key topics in machine learning and its real-time applications.
- Deliver engaging and informative lectures on various machine learning topics, such as supervised and unsupervised learning, neural networks, natural language processing, and more.
- Conduct hands-on labs and coding sessions to teach students how to implement ML algorithms using tools like Python, TensorFlow, PyTorch, etc.
- Demonstrate real-time applications of machine learning in industries such as healthcare, finance, autonomous systems, etc.

Period (worktype)  
Name of employer  
Type of business or sector  
Occupation or position held  
Role and responsibilities

Jan 2024 – Ongoing (Partime)

International Radio Medical Centre (C.I.R.M.), Rome, Italy.

Telemedical Assistance Services (TMAS)

IT Technical Support

- Oversee the organization's IT infrastructure, ensuring the smooth operation of telemedical assistance services.
- Manage and support IT staff, including hiring, training, and performance evaluation.
- Handle network security and data integrity, implementing measures to protect sensitive information.
- Collaborate with medical and administrative teams to develop and maintain efficient telemedicine systems.

Period (worktype)  
Name of employer  
Type of business or sector  
Occupation or position held  
Role and responsibilities

Sep 2019 – Dec 2019 (Fulltime)

University of International Business, Almaty, Khazakistan.

Education

Visiting researcher

- Developing, designing, and executing research projects related to medical informatics that involve data collection, data analysis, and creating research reports or papers.
- Working closely with faculty members, PhD students, and other researchers in the UIB.
- Creating algorithms to improve healthcare data processing, patient management, clinical decision support systems, or other informatics solutions that includes programming skills, machine learning expertise, and knowledge of healthcare databases.

Period (worktype)  
Name of employer  
Type of business or sector  
Occupation or position held

Sep 2019 – Dec 2019 (Fulltime)

University of Delle Marche, Ancona, Italy.

Computer Science Engineering

Process modeling Engineer (Intern)

Role and responsibilities	Worked on getting data describing sequences of operations like a typical event log generated by some information system, pre-processing them, and using algorithms to extract paths that represent the general process executed by people, information about time, duration, and other insights.
Period (worktype)	Jun 2012 – Aug 2014 (Fulltime)
Name of employer	Yantra Software services, Hyderabad, India.
Type of business or sector	Software developer
Role and responsibilities	Used the .NET ecosystem effectively, including libraries, frameworks, and tools, to build applications that run across multiple platforms. Worked with SQL Server or other databases, writing queries, optimizing database performance, and managing data integrity.

## EDUCATION

Title	Ph.D. in Medical Informatics (2018-21)
University	University of Camerino, Camerino, Italy
Grade	Excellent with lode (Maximum Mark) [110L/110]
Modules/occupational Skills covered	Machine Learning in the diagnosis of chronic diseases, Neuro Imaging, Deep learning, Health data Mining, Python, Tensorflow, R statistics, Scikit Learn, Telemedicine, Text Mining of medical documents, Health website development, ICT Technologies, Big data, and Predictive modeling.
National Qualification Framework	NQF 10
Title	International Master (IMS) in Enterprise Engineering (2016- 17)
University	University of Bordeaux, Bordeaux, France
Grade	A (CGPA: 7.2)
Modules/occupational Skills covered	Data Mining, MRP II, GRAI, Enterprise Modeling, and Industrial Engineering were attained, equipping with a robust skill set crucial for navigating modern business landscapes with analytical precision and strategic foresight.
National Qualification Framework	NQF 9
Title	Masters (MS) in Computer Science (2014-16)
University	Sheffield Hallam University, Sheffield, UK
Grade	A (CGPA: 8.1)
Modules/occupational Skills covered	Web Development, ERP, SAS, Data Structures, RDBS, and MySQL were attained, providing a solid foundation for leveraging technology in optimizing organizational processes and decision-making.
National Qualification Framework	NQF 9
Title	Bachelor of Technology (BTech) in Electronics & Communication Engineering (2008-12)
University, city	Jawaharlal Nehru Technological University, Kakinada, India
Grade	First class with distinction (CGPA: 8.2)
Modules/occupational Skills covered	Java, C, C++, Databases, Antennas, and MATLAB were acquired, laying a comprehensive groundwork in both theoretical knowledge and practical skills essential for the field of electronics and communication engineering.
National Qualification Framework	NQF 8

## PROGRAMMING AND DIGITAL SKILLS

Python	NumPy (advanced), Pandas (advanced), Sci-Kit Learn (advanced), Keras (advanced), Tensor Flow (advanced), Pytorch (medium)
R	Statistics (Advanced), multivariate analysis (Basic)
C, C++, C#	Expert
MySQL	Expert
Power BI	Professional
Others	Microsoft Office   Kanva   Paint Shop Pro   TeamViewer   Several email packages   Website development   HTML   CSS   WordPress   .Net Framework
Data mining tools	ProM, Disco, Rapid Miner, Weka
Certifications	<a href="#">OpenCV</a> <a href="#">Tensor flow</a> , <a href="#">Keras</a>

## PORTFOLIO OF DEVELOPED WEBSITES

[EURICAM](#) ; [UNICAM-FORMESTETICA](#) ; [CIRM-TMAS](#) ; [CIRM-SERVIZI](#) ; [CIRMSTORE](#) ; [CIRMFORMAZIONE](#) ; [TELEPHARMATEC](#) ; [EMANET](#) .

## PROJECTS

- Title (Period) [OSPIEMARE \(2022-24\)](#)  
Role Principal investigator (PI)  
Description This project aims to develop a data observatory of seafarers to improve health status by monitoring communicable and non-communicable diseases of seafarers by monitoring their health and disease trends, creating a standard tool (questionnaires), and conducting a risk assessment.
- Title (Period) [Marche Biobanks \(2021-23\)](#)  
Role Co-PI  
Description The collaborative research platform for personalized medicine: drugs, diagnostics, and new therapeutic approaches. Marche Biobank's reach is strategic for 4P (Personalized, Predictive, Preventive, and Participatory) medicine.
- Title (Period) [Marine Doctor \(2018-21\)](#)  
Role PI  
Description The purpose of "MARINE DOCTOR" is to simplify the medical assistance of seafarers. The developed software is user-friendly, simple, fast, and compatible with any computer. The main function of the system is to register and store seafarers' and doctors' details and guide the user to send a medical request with a simple form of a questionnaire.

## LANGUAGES

English, Italian, Telugu, Hindi,

## PERSONAL SKILLS

- Have led several seminars for undergraduates in the computer science department.
- Worked as project lead at PG level
- Chaired international conferences and delivered invited talks
- Excellent familiarity with research methodologies
- A high level of proficiency in writing and presenting scientific papers

## MAJOR ACHIEVEMENTS

- Having global recognition as member of top 2% of global scientists for three consecutive years (2022-24).
- Awarded as best student coordinator
- Two research works were selected as cover stories in Infectious Diseases Journal and Technologies journals.

## FUNDING AND GRANT WRITING

- 2018: Principal investigator in the development of a marine doctor project based on telemedical knowledge funded by ITF Trust (UK) and International Radio Medical Centre (Italy)
- 2020: Co-writer for the project enabling consumers to become Prosumer in the Energy Transition Era (ECPE)
- 2021: Principal investigator in Marche Biobank funded by European Union POR MARCHE FESR 2014/2020
- 2022: Principal investigator in OSPIEMARE (Medical observatory for seafarers) funded by the Italian Health Ministry by grant No. J59J21011210001
- 2023: UNICAM post-doctoral fellowship on "AI and ML modeling for diagnosis of neurodegenerative disorders" for three years

## H INDEX

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## PUBLICATIONS

Publications in JCR-indexed Journals (\* denotes the corresponding author)

### 2024

1. **Battineni G\***, Chintalapudi N, Amenta F Machine Learning Driven by Magnetic Resonance Imaging for the Classification of Alzheimer Disease Progression: Systematic Review and Meta-Analysis JMIR Aging 2024;7:e59370; DOI: 10.2196/59370 (IF:5.0)
2. **Battineni G\***, Chintalapudi N., Ricci G. et al. Exploring the integration of artificial intelligence (AI) and augmented reality (AR) in maritime medicine. Artif Intell Rev 57, 100 (2024). (IF:12.0)
3. **Battineni G\***, Arcese A, Chintalapudi N, Di Canio M, Sibilio F, Amenta F. Approaches to Medical Emergencies on Commercial Flights. Medicina. 2024; 60(5):683. (IF: 2.6)

4. Bhimavarapu U, Chintalapudi N, **Battineni G\***. Automatic Detection and Classification of Hypertensive Retinopathy with Improved Convolution Neural Network and Improved SVM. *Bioengineering*. 2024; 11(1):56. (IF: 4.6)
5. Bhimavarapu U, Chintalapudi N, **Battineni G\***. Brain Tumor Detection and Categorization with Segmentation of Improved Unsupervised Clustering Approach and Machine Learning Classifier. *Bioengineering*. 2024; 11(3):266. (IF: 4.6)
6. Sagaro GG, Di Canio M, **Battineni G**, Ricci G, Amenta F. Self-reported diabetes mellitus among seafarers: occupational and sociodemographic predictors. *Int Marit Health*. 2024;75(1):19-28. (IF: 2.2)
7. Mahdi, S.S., Ullah, Z., **Battineni G**. et al. The Telehealth chain: a framework for secure and transparent telemedicine transactions on the blockchain. *Ir J Med Sci* (2024). (IF: 2.1)

## 2023

1. **Battineni G\***, Chintalapudi N, Gagliardi G, Amenta F. The Use of Radio and Telemedicine by TMAS Centers in Provision of Medical Care to Seafarers: A Systematic Review. *J Pers Med*. 2023;13(7). (IF: 3.4)
2. Sagaro GG, Angeloni U, Marotta C, Nittari G, Rezza G, Silenzi A, **Battineni G**, Amenta F. The Magnitude of Cardiovascular Disease Risk Factors in Seafarers from 1994 to 2021: A Systematic Review and Meta-Analysis. *J Pers Med*. 2023 May 20;13(5):861. (IF: 3.4)
3. Mahdi SS, Jafri HA, Allana R, **Battineni G**, Khawaja M, Sakina S, et al. A systematic review on the current state of disaster preparation Simulation Exercises (SimEx). *BMC Emerg Med*. 2023;23(1). (IF: 2.8)
4. Gujjar V, Mago N, Kumari R, Patel S, Chintalapudi N, **Battineni G\***. A Literature Survey on Word Sense Disambiguation for the Hindi Language. *Inf*. 2023;14(9). (IF: 3.1)
5. Sagaro GG, Angeloni U, **Battineni G**, Chintalapudi N, Dicanio M, Kebede MM, et al. Risk prediction model of self-reported hypertension for telemedicine based on the sociodemographic, occupational and health-related characteristics of seafarers: A cross-sectional epidemiological study. *BMJ Open*. 2023;13(10). (IF: 3.1)
6. Bhimavarapu U, Chintalapudi N, **Battineni G\***. Multi-Classification of Lung Infections Using Improved Stacking Convolution Neural Network. *Technologies*. 2023;11(5). (IF: 3.6)
7. Bhimavarapu U, Chintalapudi N, **Battineni G\***. Automatic Detection and Classification of Diabetic Retinopathy Using the Improved Pooling Function in the Convolution Neural Network. *Diagnostics*. 2023;13(15). (IF: 3.6)
8. Bhimavarapu U, **Battineni G**, Chintalapudi N. Automatic Classification of Hypertensive Retinopathy by Gray Wolf Optimization Algorithm and Naïve Bayes Classification. *Axioms*. 2023;12(7). (IF: 2.0)
9. Bhimavarapu U, **Battineni G\***. Deep Learning for the Detection and Classification of Diabetic Retinopathy with an Improved Activation Function. *Healthc*. 2023;11(1). (IF: 2.8)
10. Bhimavarapu U, **Battineni G**, Chintalapudi N. Improved Optimization Algorithm in LSTM to Predict Crop Yield. *Computers*. 2023;12(1). (IF: 2.8)
11. Mahdi SS, **Battineni G\***, Khawaja M, Allana R, Siddiqui MK, Agha D. How does artificial intelligence impact digital healthcare initiatives? A review of AI applications in dental healthcare. *Int J Inf Manag Data Insights*. 2023;3(1). (IF: 10.5)
12. Mahdi SS, Yaqoob R, Allana R, **Battineni G**, Sakina S, Agha D, Andiesta NS, Babar MG, Ahmed Z, Daoood U. Monkeypox resurgence and its implications for Dentistry - A scoping review. *Ig Sanita Pubbl*. 2023 Mar-Apr;80(2):49-59.
13. Chintalapudi N, Dhulipalla VR, **Battineni G**, Rucco C, Amenta F. Voice Biomarkers for Parkinson's Disease Prediction Using Machine Learning Models with Improved Feature Reduction Techniques. *J Data Sci Intell Syst*. 2023 Apr 17;1(2):92–8.
14. R. S and **G. Battineni**, "A Survey on Recent Advancements in Auto-Machine Learning with a Focus on Feature Engineering", *JCCCE*, May 2023.

## 2022

1. **Battineni G\***, Hossain MA, Chintalapudi N, Amenta F. A Survey on the Role of Artificial Intelligence in Biobanking Studies. *Diagnostics*. 2022;12(5). (IF: 3.2)
2. **Battineni G\***, Chintalapudi N, Amenta F. Model discovery, and replay fitness validation using inductive mining techniques in medical training of CVC surgery. *Appl Comput Informatics*. 2022;18(3–4):245–55. (IF: 16.3)
3. **Battineni G\***, Chintalapudi N, Amenta F. Maritime Telemedicine: Design and Development of an Advanced Healthcare System Called Marine Doctor. *J Pers Med*. 2022;12(5). (IF: 3.6)
4. **Battineni G\***, Chintalapudi N, Zacharewicz G. Process Mining in Clinical Practice: Model Evaluations in the Central Venous Catheter Installation Training. *Algorithms*. 2022;15(5). (IF: 2.3)
5. **Battineni G\***, Chintalapudi N, Hossain MA, Losco G, Ruocco C, Sagaro GG, et al. Artificial Intelligence Models in the Diagnosis of Adult-Onset Dementia Disorders: A Review. *Bioengineering*. 2022;9(8). (IF: 4.6)

6. Naim S, Spagnuolo G, Osman E, Mahdi SS, **Battineni G**, Qasim SSB, et al. Quantitative Measurements of the Depth of Enamel Demineralization before and after Bleach: An In Vitro Study. *Biomed Res Int.* 2022;2022.
7. Khandelwal A, Janani K, Teja K, Jose J, **Battineni G**, Riccitiello F, et al. Periapical Healing Following Root Canal Treatment Using Different Endodontic Sealers: A Systematic Review. *Biomed Res Int.* 2022;2022.
8. Mahdi SS, Allana R, **Battineni G\***, Khalid T, Agha D, Khawaja M, et al. The promise of telemedicine in Pakistan: A systematic review. *Heal Sci Reports.* 2022;5(1). (IF: 2.0)
9. Chintalapudi N, Angeloni U, **Battineni G**, Di Canio M, Marotta C, Rezza G, et al. LASSO Regression Modeling on Prediction of Medical Terms among Seafarers' Health Documents Using Tidy Text Mining. *Bioengineering.* 2022;9(3). (IF: 4.6)
10. Bhimavarapu U, **Battineni G\***. Automatic Microaneurysms Detection for Early Diagnosis of Diabetic Retinopathy Using Improved Discrete Particle Swarm Optimization. *J Pers Med.* 2022;12(2). (IF: 3.4)
11. Mago N, Mittal M, Bhimavarapu U, **Battineni G\***. Optimized outdoor parking system for smart cities using advanced saliency detection method and hybrid features extraction model. *J Taibah Univ Sci.* 2022;16(1):401–14. (IF: 3.3)
12. Chintalapudi N, **Battineni G**, Hossain MA, Amenta F. Cascaded Deep Learning Frameworks in Contribution to the Detection of Parkinson's Disease. *Bioengineering.* 2022;9(3). (IF: 4.6)
13. Bhimavarapu U, **Battineni G\***. Skin Lesion Analysis for Melanoma Detection Using the Novel Deep Learning Model Fuzzy GC-SCNN. *Healthc.* 2022;10(5). (IF: 2.8)
14. Pandey MK, Saini A, Subbiah K, Chintalapudi N, **Battineni G\***. Improved Carpooling Experience through Improved GPS Trajectory Classification Using Machine Learning Algorithms. *Inf.* 2022;13(8). (IF: 3.1)
15. Bhimavarapu U, Chintalapudi N, **Battineni G\***. A Fair and Safe Usage Drug Recommendation System in Medical Emergencies by a Stacked ANN. *Algorithms.* 2022;15(6). (IF: 2.3)
16. Bhimavarapu U, Sreedevi M, Chintalapudi N, **Battineni G\***. Physical Activity Recommendation System Based on Deep Learning to Prevent Respiratory Diseases. *Computers.* 2022;11(10). (IF: 2.8)

## 2021

1. **Battineni G\***, Pallotta G, Nittari G, Chintalapudi N, Varlaro V, Amenta F. Development of quality assessment tool for websites of the international aesthetic medicine societies. *Informatics Med Unlocked.* 2021;23. (IF: 8.0)
2. **Battineni G\***, Sagaro GG, Chintalapudi N, Di Canio M, Amenta F. Assessment of awareness and knowledge on Novel Coronavirus (COVID-19) pandemic among seafarers. *Healthc.* 2021;9(2). (IF: 3.6)
3. **Battineni G\***, Hossain MA, Chintalapudi N, Traini E, Dhulipalla VR, Ramasamy M, et al. Improved alzheimer's disease detection by MRI using multimodal machine learning algorithms. *Diagnostics.* 2021;11(11). (IF: 3.4)
4. **Battineni G\***, Sagaro GG, Chintalapudi N, Amenta F, Tomassoni D, Tayebati SK. Impact of obesity-induced inflammation on cardiovascular diseases (Cvd). *Int J Mol Sci.* 2021;22(9). (IF: 5.6)
5. **Battineni G\***, Sagaro GG, Chintalapudi N, Amenta F. The benefits of telemedicine in personalized prevention of cardiovascular diseases (CVD): A systematic review. *J Pers Med.* 2021;11(7). (IF: 3.2)
6. Sagaro GG, Diciano M, **Battineni G**, Samad MA, Amenta F. Incidence of occupational injuries and diseases among seafarers: A descriptive epidemiological study based on contacts from onboard ships to the Italian Telemedical Maritime Assistance Service in Rome, Italy. *BMJ Open.* 2021;11(3). (IF: 2.3)
7. Chhetri B, Goyal LM, Mittal M, **Battineni G\***. Estimating the prevalence of stress among Indian students during the COVID-19 pandemic: A cross-sectional study from India. *J Taibah Univ Med Sci.* 2021;16(2):260–7. (IF: 2.2)
8. Nittari G, **Battineni G**, Messinetti M, Campanozzi L, Sirignano A. Critical reflections and solutions for health problems of Italian refugees. *Clin Ter.* 2021;172(2):158–62.
9. Sagaro GG, **Battineni G**, Camo MD, Minciocchi A, Nittari G, Amenta F. A descriptive epidemiological study of cardiovascular diseases among seafarers. *Int Marit Health.* 2021;72(4):252–8. (IF: 2.3)
10. Chintalapudi N, **Battineni G**, Amenta F. Sentimental analysis of COVID-19 tweets using deep learning models. *Infect Dis Rep.* 2021;13(2). (IF: 3.2)
11. Kansal AK, Gautam J, Chintalapudi N, Jain S, **Battineni G\***. Google trend analysis and paradigm shift of online education platforms during the COVID-19 pandemic. *Infect Dis Rep.* 2021;13(2):418–28. (IF: 3.2)
12. Aggarwal A, Mittal M, **Battineni G\***. Generative adversarial network: An overview of theory and applications. *Int J Inf Manag Data Insights.* 2021;1(1). (IF: 10.5)

13. Chakraborty T, Jamal RF, **Battineni G**, Teja KV, Marto CM, Spagnuolo G. A review of prolonged post-covid-19 symptoms and their implications on dental management. *Int J Environ Res Public Health*. 2021;18(10). (IF: 3.3)
14. Chintalapudi N, **Battineni G**, Canio MD, Sagaro GG, Amenta F. Text mining with sentiment analysis on seafarers' medical documents. *Int J Inf Manag Data Insights*. 2021;1(1). (IF: 10.5)
15. Chintalapudi N, **Battineni G**, Amenta F. Second wave of COVID-19 in Italy: Preliminary estimation of reproduction number and cumulative case projections. *Results Phys*. 2021;28. (IF: 5.3)
16. Badr C, Spagnuolo G, Amenta F, Khairallah C, Mahdi SS, Daher E, **Battineni G**, Baba NZ, Zogheib T, Qasim SSB, Daher T, Chintalapudi N, Zogheib CM. A Two-Year Comparative Evaluation of Clinical Performance of a Nanohybrid Composite Resin to a Flowable Composite Resin. *J Funct Biomater*. 2021 Sep 9;12(3):51. doi: 10.3390/jfb12030051. (IF: 4.8)
17. Carotenuto A, Traini E, Fasanaro AM, **Battineni G**, Amenta F. Tele-neuropsychological assessment of Alzheimer's disease. *J Pers Med*. 2021;11(8). (IF: 3.2)
18. Sagaro GG, **Battineni G**, Di Canio M, Amenta F. Self-reported modifiable risk factors of cardiovascular disease among seafarers: A cross-sectional study of prevalence and clustering. *J Pers Med*. 2021;11(6). (IF: 3.2)
19. Mittal M, **Battineni G\***, Singh D, Nagarwal T, Yadav P. Web-based chatbot for Frequently Asked Queries (FAQ) in Hospitals. *J Taibah Univ Med Sci*. 2021;16(5):740–6. (IF: 2.3)
20. Savva D, **Battineni G**, Amenta F, Nittari G. Hypersensitivity reaction to hyaluronic acid dermal filler after the Pfizer vaccination against SARS-CoV-2. *Int J Infect Dis*. 2021; 113:233–5. (IF: 14.8)

## 2020

1. **Battineni G\***, Sagaro GG, Chintalapudi N, Amenta F. Applications of machine learning predictive models in the chronic disease diagnosis. *J Pers Med*. 2020;10(2). (IF: 3.6)
2. **Battineni G\***, Amenta F. Designing of an Expert system for the management of Seafarer's health. *Digit Heal*. 2020;6. (IF: 4.4)
3. **Battineni G\***, Chintalapudi N, Amenta F. Performance analysis of different machine learning algorithms in breast cancer predictions. *EAI Endorsed Trans Pervasive Heal Technol*. 2020;6(23):1–7 (IF:3.3).
4. **Battineni G\***, Chintalapudi N, Amenta F. SARS-CoV-2 epidemic calculation in Italy by SEIR compartmental models. *Appl Comput Informatics*. *Applied Computing and Informatics*, Vol. 20 No. 3/4, pp. 251-261. (IF: 12.3)
5. **Battineni G\***, Chintalapudi N, Amenta F. Forecasting of COVID-19 epidemic size in four high hitting nations (USA, Brazil, India and Russia) by Fb-Prophet machine learning model. *Appl Comput Informatics*. 2020 (IF: 12.3)
6. **Battineni G\***, Baldoni S, Chintalapudi N, Sagaro GG, Pallotta G, Nittari G, et al. Factors affecting the quality and reliability of online health information. *Digit Heal*. 2020;6. (IF: 4.4)
7. **Battineni G\***, Chintalapudi N, Amenta F. Ai chatbot design during an epidemic like the novel coronavirus. *Healthc*. 2020;8(2). (IF: 3.1)
8. **Battineni G\***, Chintalapudi N, Amenta F, Traini E. A comprehensive machine-learning model applied to magnetic resonance imaging (MRI) to predict Alzheimer's disease (ad) in older subjects. *J Clin Med*. 2020;9(7):1–14. (IF: 3.9)
9. **Battineni G\***, Sagaro GG, Chintalapudi N, Amenta F. Conceptual Framework and Designing for a Seafarers' Health Observatory (SHO) Based on the Centro Internazionale Radio Medico (C.I.R.M.) Data Repository. *Sci World J*. 2020;2020. (IF: 5.2)
10. Mirmoeini SM, Shooshtari SSM, **Battineni G**, Amenta F, Tayebati SK. Telepediatric assistance in Iran: Specialist and subspecialty challenges. *EAI Endorsed Trans Pervasive Heal Technol*. 2020;6(23):1–8. (IF: 3.3)
11. Sagaro GG, **Battineni G**, Chintalapudi N, Canio MD, Amenta F. Telemedical assistance at sea in the time of COVID-19 pandemic. *Int Marit Health*. 2020;71(4):229–36. (IF: 2.6)
12. Chintalapudi N, **Battineni G**, Sagaro GG, Amenta F. COVID-19 outbreak reproduction number estimations and forecasting in Marche, Italy. *Int J Infect Dis*. 2020;96:327–33. (IF: 3.2)
13. Nittari G, Khuman R, Baldoni S, Pallotta G, **Battineni G**, Sirignano A, et al. Telemedicine Practice: Review of the Current Ethical and Legal Challenges. *Telemed e-Health*. 2020;26(12):1427–37. (IF: 4.7)
14. Chintalapudi N, **Battineni G**, Amenta F. COVID-19 virus outbreak forecasting of registered and recovered cases after sixty day lockdown in Italy: A data driven model approach. *J Microbiol Immunol Infect*. 2020;53(3):396–403. (IF: 7.4)
15. Sagaro GG, **Battineni G**, Amenta F. Barriers to Sustainable Telemedicine Implementation in Ethiopia: A Systematic Review. *Telemed Reports*. 2020;1(1):8–15. (IF: 1.5)

## 2019

1. **Battineni G\***, Canio MD, Chintalapudi N, Amenta F, Nittari G. Development of physical training smartphone application to maintain fitness levels in seafarers. *Int Marit Health*. 2019;70(3):180–6. (IF: 2.2)
2. **Battineni G\***, Chintalapudi N, Amenta F. Machine learning in medicine: Performance calculation of dementia prediction by support vector machines (SVM). *Informatics Med Unlocked*. 2019;16.

(IF: 8.0)

3. **Battineni G\***, Sagaro GG, Nalini C, Amenta F, Tayebati SK. Comparative machine-learning approach: A follow-up study on type 2 diabetes predictions by cross-validation methods. *Machines*. 2019;7(4). (IF: 2.7)
4. **Battineni G\***, Chintalapudi N, Amenta F, Tayebati SK. Report on market analysis and preventions need to provide medications for rural patients of Italy using ICT technologies. *Int J Innov Technol Explor Eng*. 2019;9(1):5286–9.
5. Nittari G, Pallotta G, **Battineni G**, Ioannidis N, Tayebati SK, Amenta F, et al. Comparative analysis of the medicinal compounds of the ship's "medicine chests" in European Union maritime countries. Need for improvement and harmonization. *Int Marit Health*. 2019;70(3):143–50. (IF: 2.2)
6. Nittari G, Arcese A, **Battineni G**, Khuman K, Pallotta G, Saturnino A, et al. Design and evolution of the Seafarer's Health Passport for supporting (tele)-medical assistance to seafarers. *Int Marit Health*. 2019;70(3):151–7. (IF: 2.2)
7. Mirmoeini SM, Shooshtari SSM, **Battineni G**, Amenta F, Tayebati SK. Policies and challenges on the distribution of specialists and subspecialists in rural areas of Iran. *Med*. 2019;55(12). (IF: 2.8)

#### PUBLICATIONS IN NON-INDEXED JOURNALS

1. **Battineni G\***, Chintalapudi N, Amenta F (2020) Late-Life Alzheimer's Disease (AD) Detection Using Pruned Decision Trees. *Int J Brain Disord Treat* 6:033. doi.org/10.23937/2469-5866/1410033
2. **Battineni G\***, Chintalapudi N, Amenta F. Tropical Conditions and Outbreak of COVID-19. *Pharm Biomed Res*. 2020 Oct 21; 6:2020.
3. **Battineni G\***, Mohammad Amran H, Chintalapudi N, Giulio N, Ciro R, Enea T, et al. Brain Imaging Studies Using Deep Neural Networks in the Detection of Alzheimer's Disease. *OBM Geriatr* 2023, Vol 7, 220. 2023 Jan 3;7(1):1–10.
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#### EDITORIAL LETTERS

1. **Battineni G\***, Kumar S, Mittal M, Amenta F. COVID-19 vaccine on board ships: Current and future implications of seafarers. *Int Marit Health*. 2021;72(1):76–7. (IF: 2.6)
2. **Battineni G\***, Nittari G, Sirignano A, Amenta F. Are telemedicine systems effective healthcare solutions during the COVID-19 pandemic? *J Taibah Univ Med Sci*. 2021;16(3):305–6. (IF: 2.2)
3. **Battineni G\***, Pallotta G, Nittari G, Amenta F. Telemedicine framework to mitigate the impact of the COVID-19 pandemic. *J Taibah Univ Med Sci*. 2021;16(2):300–2. (IF: 2.2)
4. Mittal M, **Battineni G**, Goyal LM, Chhetri B, Oberoi SV, Chintalapudi N, et al. Cloud-based framework to mitigate the impact of COVID-19 on seafarers' mental health. *Int Marit Health*. 2020;71(3):213–4. (IF: 2.6)
5. Teja KV, Ramesh S, Vasundhara KA, Janani KC, Jose J, **Battineni G**. A new innovative automated root canal device for syringe needle irrigation. *J Taibah Univ Med Sci*. 2022;17(1):155–8. (IF: 2.2)
6. Sharma R, Mittal M, **Battineni G\***, Amenta F. Applications of metaverse for improving healthcare at sea. *Int Marit Health*. 2023;74(2):129–30. (IF: 2.6)

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1. **Battineni G\***, Mittal M, Jain S. Data visualization in the transformation of healthcare industries. Vol. 64, *Lecture Notes on Data Engineering and Communications Technologies*. 2021. 1–23 p.
2. **Battineni G\***, Hossain MA, Chintalapudi N, Amenta F. Alzheimer's Disease Classification Using Feed Forwarded Deep Neural Networks for Brain MRI Images. Vol. 128, *Lecture Notes on Data Engineering and Communications Technologies*. 2022. 269–283 p.
3. **Battineni G\***, Chintalapudi N, Hossain, M.A., Amenta, F. (2022). Telemedicine Services and Frameworks During COVID-19: A Case Study of Seafarers. In: Mittal, M., Battineni, G. (eds) *Information and Communication Technology (ICT) Frameworks in Telehealth*. TELe-Health. Springer, Cham.
4. **Battineni G\***, Nittari G, Pallotta G, Sagaro GG, Chintalapudi N, Amenta F. Telehealth and Pharmacological Strategies of COVID-19 Prevention: Current and Future Developments. Vol. 366, *Studies in Systems, Decision and Control*. 2022. 897–927 p.
5. **Battineni G\***. Opportunities and challenges in healthcare with the management of big biomedical data. *Big Data Analytics for Healthcare: Datasets, Techniques, Life Cycles, Management, and Applications*. 2022. 265–275 p.
6. **Battineni G\***. Machine Learning and Deep Learning Algorithms in the Diagnosis of Chronic Diseases. Vol. 968, *Studies in Computational Intelligence*. 2021. 141–164 p.
7. Amenta F, **Battineni G**, Traini E, Pallotta G. Choline-containing phospholipids and treatment of adult-onset dementia disorders. *Diagnosis and Management in Dementia: The Neuroscience of Dementia, Volume 1*. 2020. 477–493 p.
8. Ravi Shankar S, **Battineni G\***, Mittal M. Cognitive computing in human activity recognition with a focus on healthcare. *Cognitive Computing for Human-Robot Interaction: Principles and Practices*. 2021. 51–67 p.

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10. Chintalapudi N, **Battineni G**, Goyal LM, Amenta F. Brain tumor classifications by gradient and XG boosting machine learning models. Predictive Modeling in Biomedical Data Mining and Analysis. 2022. 123–136 p.
11. Allegranti I, **Battineni G**, Garetto R. The Use of Artificial Intelligence and Mixed Reality in Preventing Natural Disasters: Practical and Legal Issues. Springer Series on Cultural Computing. 2023. 349–368 p.
12. Ramasamy, M., **Battineni, G\***. (2022). Proactive Digital Mental Healthcare Using ICT-Based Psychiatry Services to Prevent Cognitive Diseases During COVID Environment. In: Mittal, M., Battineni, G. (eds) Information and Communication Technology (ICT) Frameworks in Telehealth. TELe-Health. Springer, Cham.
13. Kalyani, G., Suneetha, M., Janaki Ramaiah, B., **Battineni, G\***. (2023). Analysis of Depression Disorder with Motor Activity Time-Series Data Using Machine Learning and Deep Learning. In: Battineni, G., Mittal, M., Chintalapudi, N. (eds) Computational Methods in Psychiatry. Springer, Singapore.
14. Mariappan, R., **Battineni, G\***. (2023). Deep Feedforward Neural Networks for Prediction of Mental Health. In: Battineni, G., Mittal, M., Chintalapudi, N. (eds) Computational Methods in Psychiatry. Springer, Singapore.

#### CONFERENCE PROCEEDINGS

1. **Battineni G\***, Chintalapudi N, Amenta F. Comparative machine learning approach in dementia patient classification using principal component analysis. In: ICAART 2020 - Proceedings of the 12th International Conference on Agents and Artificial Intelligence. 2020. p. 780–4.
2. **Battineni G\***, Chintalapudi N, Amenta F, Traini E. Deep learning type convolution neural network architecture for multiclass classification of Alzheimer's disease. In: BIOIMAGING 2021 - 8th International Conference on Bioimaging; Part of the 14th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2021. 2021. p. 209–15.
3. Mittal M, **Battineni G**, Kumar P, Sharma P, Panwar A. IoT-based image defogging system for road accident control during winters. In: Proceedings of the 2020 International Conference on Computing, Communication and Security, ICCCS 2020. 2020.
4. Mittal, M., **Battineni, G.**, Ahmad, W., Kumar, N., Upreti, R. (2022). Mathematical Scanner (M-Scan) Mobile Application for Solving Simple Math Equations. In: Khanna, A., Gupta, D., Bhattacharyya, S., Hassanien, A.E., Anand, S., Jaiswal, A. (eds) International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1388. Springer, Singapore.
5. T. Upadhyay, M. Aamash, M. Mittal, and **G. Battineni**, "Pest detection using state-of-the-art YOLO models: a comparative study," Int. Conf. Comput. Vis. Internet Things 2023, pp. 238–243, 2023

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- 🔗 Mittal M, **Battineni G**, eds. Information and Communication Technology (ICT) Frameworks in Telehealth. Published online 2022.
- 🔗 Battineni G, Mittal M, Chintalapudi N, eds. Computational Methods in Psychiatry. Published online 2024.
- 🔗 Mittal M, Battineni G, Usharani B, Goyal LM. Text Analysis with Python: A Research Oriented Guide. Text Anal with Python A Res Oriented Guid. Published online August 11, 2022.

#### GUEST TALKS

2018: Cross- Border Continuous Medical Education (CB-CME) at Bruxelles, Belgium  
 2019: Guest talk at International Maritime Health in Hamburg, Germany  
 2020: Presentation on ML-based neuroimaging at ICART, Malta  
 2022: Neuroscience forum at 10<sup>th</sup> International Conference, Paris, France  
 2024: Panel discussion member at SHIPSAN Congress, Naples, Italy

#### GUEST EDITOR

Journal of Personalized Medicine, Algorithms, Frontiers in Applied Mathematics and Statistics

#### PEER REVIEWER

Diagnostics, Electronics, Applied Sciences, Energies, Cancers, Applied System Innovation, International Journal of Health Planning and Management, Maritime Business Review, Mathematics, Processes, Sensors, Transactions on Emerging Telecommunications Technologies, Algorithms, Artificial Intelligence Review, Atmosphere, Earth Science Informatics, Informatics, Journal of Multidisciplinary Healthcare, Sustainability.